

PA0394 PCT - Sequence Listing - PatentIn 3.2.ST25
SEQUENCE LISTING

<110> Amersham Biosciences UK Limited

<120> Cytochrome C Protein and Assay

<130> PA0394

<140> GB0329353.7

<141> 2003-12-19

<160> 15

<170> PatentIn version 3.2

<210> 1

<211> 315

<212> DNA

<213> Homo sapiens

<400> 1

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acaggtcagg cccctggata ctcttacaca gccgccaata agaacaaagg catcatctgg 180

ggagaggata cactgatgga gtatttggag aatcccaaga agtacatccc tggAACAAA 240

atgatctttg tcggcattaa gaagaaggaa gaaaggcag acttaatgc ttatctcaa 300

aaagctacta atgag 315

<210> 2

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2

Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
1 5 10 15

Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
20 25 30

Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
35 40 45

Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
50 55 60

Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys
65 70 75 80

Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
85 90 95

Ala Tyr Leu Lys Lys Ala Thr Asn Glu
100 105

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<210> 3
<211> 1044
<212> DNA
<213> Artificial

<220>
<223> Synthetic oligonucleotide

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aaacttaccc ttaaatttat ttgcactact ggaaaactac ctgttccatg gccaacactt 180
gtcactactc tctcttatgg tgttcaatgc ttttcaagat acccagatca tatgaaacgg 240
catgacttt tcaagagtgc catgcccga gtttatgtac aggaaagaac tatattttc 300
aaagatgacg ggaactacaa gacacgtgct gaagtcaagt ttgaaggtga tacccttgg 360
aatagaatcg agtaaaagg tattgatttt aaagaagatg gaaacattct tggacacaaa 420
ttggaataca actataactc acacaatgta tacatcatgg cagacaaaca aaagaatgga 480
atcaaagtta acttcaaaat tagacacaaac attgaagatg gaggcgttca actagcagac 540
cattatcaac aaaatactcc aattggcgat ggcctgtcc ttttaccaga caaccattac 600
ctgtccacac aatctgccct ttcgaaagat cccaacgaaa agagagacca catggcctt 660
cttggcttg taacagctgc tggattaca catggcatgg atgaactata caaactcgag 720
aattcgacca tgggtgatgt tgagaaaggc aagaagattt ttattatgaa gtgttcccg 780
tgccacaccg ttgaaaagg aggcaagcac aagactggc caaatctcca tggctcttt 840
ggcggaaga caggtcaggc ccctggatac tcttacacag ccgccaataa gaacaaaggc 900
atcatctggg gagaggatac actgatggag tatttggaga atcccgccaa gtacatccct 960
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<210> 4
<211> 348
<212> PRT
<213> Artificial

<220>
<223> Synthetic polypeptide

<400> 4

Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
1 5 10 15

Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45

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Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60

Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val
165 170 175

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val
210 215 220

Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys Leu Glu
225 230 235 240

Asn Ser Thr Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met
245 250 255

Lys Cys Ser Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr
260 265 270

Gly Pro Asn Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro
275 280 285

Gly Tyr Ser Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly
290 295 300

Glu Asp Thr Leu Met Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro
305 310 315 320

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Gly Thr Lys Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala
 325 330 335

Asp Leu Ile Ala Tyr Leu Lys Lys Ala Thr Asn Glu
 340 345

<210> 5
 <211> 1041

<212> DNA

<213> Artificial

<220>

<223> Synthetic oligonucleotide

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acaggtcagg cccctggata ctcttacaca gccgccaata agaacaagg catcatctgg	180
ggagaggata cactgatgga gtatttggag aatccgc当地 agtacatccc tggAACAAA	240
atgatcttg tcggcattaa gaagaaggaa gaaaggcag acttaatagc ttatctcaa	300
aaagctacta atgagggtcg acccggatg agtaaaggag aagaactttt cactggagtt	360
gtcccaattc ttgttgaatt agatggatg gttaatggc acaaatttc tgtcagtgg	420
gagggtgaag gtatgcaac atacggaaaa cttaccctta aatttatttg cactactgga	480
aaactacctg ttccatggcc aacacttgc actactctct cttatgggt tcaatgctt	540
tcaagatacc cagatcatat gaaacggcat gacttttca agagtccat gcccgaaggt	600
tatgtacagg aaagaactat attttcaaa gatgacgggaa actacaagac acgtgctgaa	660
gtcaagttt aaggtgatac cttgttaat agaatcgagt taaaaggtat tgattttaaa	720
gaagatggaa acattttgg acacaaatttgaatacaact ataactcaca caatgtatac	780
atcatggcag acacaaaaaa gaatggatc aaagttaact tcaaaattttag acacaacatt	840
gaagatggag gcgttcaact agcagaccat tatcaacaaa atactccat tggcgatggc	900
cctgtccttt taccagacaa ccattacctg tccacacaaat ctgcctttc gaaagatccc	960
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<210> 6

<211> 347

<212> PRT

<213> Artificial

<220>

<223> Synthetic polypeptide

<400> 6

Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
 1 5 10 15

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Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
20 25 30

Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
35 40 45

Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
50 55 60

Leu Met Glu Tyr Leu Glu Asn Pro Ala Lys Tyr Ile Pro Gly Thr Lys
65 70 75 80

Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
85 90 95

Ala Tyr Leu Lys Lys Ala Thr Asn Glu Gly Arg Pro Gly Met Ser Lys
100 105 110

Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp
115 120 125

Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly
130 135 140

Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly
145 150 155 160

Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Ser Tyr Gly
165 170 175

Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg His Asp Phe
180 185 190

Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe
195 200 205

Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu
210 215 220

Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys
225 230 235 240

Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser
245 250 255

His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val
260 265 270

Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val Gln Leu Ala
275 280 285

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Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu
290 295 300

Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro
305 310 315 320

Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val Thr Ala Ala
325 330 335

Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
340 345

<210> 7

<211> 1044

<212> DNA

<213> Artificial

<220>

<223> synthetic oligonucleotide

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aaacttaccc	ttaaatttat	ttgcactact	ggaaaactac	ctgttccatg	gccaacactt	180
gtcactactc	tctcttatgg	tgtcaatgc	tttcaagat	accagatca	tatgaaacgg	240
catgactttt	tcaagagtgc	catgcccga	ggttatgtac	aggaaagaac	tatattttc	300
aaagatgacg	ggaactacaa	gacacgtgct	gaagtcaagt	ttgaaggtga	tacccttgtt	360
aatagaatcg	agttaaaagg	tattgatttt	aaagaagatg	gaaacattct	tggacacaaa	420
ttggaataca	actataactc	acacaatgta	tacatcatgg	cagacaaaca	aaagaatgga	480
atcaaagtta	acttcaaaat	tagacacaac	attgaagatg	gaggcgttca	actagcagac	540
cattatcaac	aaaatactcc	aattggcgat	ggccctgtcc	ttttaccaga	caaccattac	600
ctgtccacac	aatctgccct	ttcgaaagat	cccaacgaaa	agagagacca	catggtcctt	660
cttggcttg	taacagctgc	tgggattaca	catggcatgg	atgaactata	caaactcgag	720
aattcgacca	tgggtgatgt	tgagaaaggc	aagaagattt	ttattatgaa	gtgttcccag	780
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ggcggaaga	caggtcaggc	ccctggatac	tcttacacag	ccgccaataa	gaacaaaggc	900
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<210> 8

<211> 348

<212> PRT

<213> Artificial

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<220>

<223> Synthetic polypeptide

<400> 8

Met Ser Lys Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val
1 5 10 15

Glu Leu Asp Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu
20 25 30

Gly Glu Gly Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys
35 40 45

Thr Thr Gly Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu
50 55 60

Ser Tyr Gly Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg
65 70 75 80

His Asp Phe Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg
85 90 95

Thr Ile Phe Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val
100 105 110

Lys Phe Glu Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile
115 120 125

Asp Phe Lys Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn
130 135 140

Tyr Asn Ser His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly
145 150 155 160

Ile Lys Val Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val
165 170 175

Gln Leu Ala Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro
180 185 190

Val Leu Leu Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser
195 200 205

Lys Asp Pro Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val
210 215 220

Thr Ala Ala Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys Leu Glu
225 230 235 240

Asn Ser Thr Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met
245 250 255

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Lys Cys Ser Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr
 260 265 270

Gly Pro Asn Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro
 275 280 285

Gly Tyr Ser Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly
 290 295 300

Glu Asp Thr Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro
 305 310 315 320

Gly Thr Lys Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala
 325 330 335

Asp Leu Ile Ala Tyr Leu Lys Lys Ala Thr Asn Glu
 340 345

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 <211> 1041

<212> DNA

<213> Artificial

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<223> Synthetic oligonucleotide

<400> 9

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acaggtcagg cccctggata ctcttacaca gccgccaata agaacaaagg catcatctgg	180
ggagaggata cactgatgga gtatttggag aatcccaaga agtacatccc tggAACAAA	240
atgatcttg tcggcattaa gaagaaggaa gaaaggcag acttaatagc ttatctcaa	300
aaagctacta atgagggtcg acccgggatg agtaaaggag aagaacttt cactggagtt	360
gtcccaattc ttgttgaatt agatggat gttaatggc acaaatttc tgtcagtgg	420
gagggtgaag gtgatgcaac atacggaaaa cttaccctta aatttatttg cactactgga	480
aaactacctg ttccatggcc aacacttgtc actactctct cttatgggt tcaatgcttt	540
tcaagatacc cagatcatat gaaacggcat gacttttca agagtgcatt gcccgaaggt	600
tatgtacagg aaagaactat attttcaaa gatgacggga actacaagac acgtgctgaa	660
gtcaagttt aaggtgatac cttgttaat agaatcgagt taaaaggtat tgattttaaa	720
gaagatggaa acattcttgg acacaaatttgaatacaact ataactcaca caatgtatac	780
atcatggcag acaaacaaaa gaatggaatc aaagttaact tcaaaatttag acacaacatt	840
gaagatggag gcgttcaact agcagaccat tatcaacaaa atactccat tggcgatggc	900
cctgtccttt taccagacaa ccattacctg tccacacaat ctgcccttc gaaagatccc	960
aacgaaaaaga gagaccacat ggcccttctt ggcttgtaa cagctgctgg gattacacat	1020

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1041

<210> 10
<211> 347
<212> PRT
<213> Artificial

<220>
<223> Synthetic polypeptide

<400> 10

Met Gly Asp Val Glu Lys Gly Lys Lys Ile Phe Ile Met Lys Cys Ser
1 5 10 15

Gln Cys His Thr Val Glu Lys Gly Gly Lys His Lys Thr Gly Pro Asn
20 25 30

Leu His Gly Leu Phe Gly Arg Lys Thr Gly Gln Ala Pro Gly Tyr Ser
35 40 45

Tyr Thr Ala Ala Asn Lys Asn Lys Gly Ile Ile Trp Gly Glu Asp Thr
50 55 60

Leu Met Glu Tyr Leu Glu Asn Pro Lys Lys Tyr Ile Pro Gly Thr Lys
65 70 75 80

Met Ile Phe Val Gly Ile Lys Lys Lys Glu Glu Arg Ala Asp Leu Ile
85 90 95

Ala Tyr Leu Lys Lys Ala Thr Asn Glu Gly Arg Pro Gly Met Ser Lys
100 105 110

Gly Glu Glu Leu Phe Thr Gly Val Val Pro Ile Leu Val Glu Leu Asp
115 120 125

Gly Asp Val Asn Gly His Lys Phe Ser Val Ser Gly Glu Gly Glu Gly
130 135 140

Asp Ala Thr Tyr Gly Lys Leu Thr Leu Lys Phe Ile Cys Thr Thr Gly
145 150 155 160

Lys Leu Pro Val Pro Trp Pro Thr Leu Val Thr Thr Leu Ser Tyr Gly
165 170 175

Val Gln Cys Phe Ser Arg Tyr Pro Asp His Met Lys Arg His Asp Phe
180 185 190

Phe Lys Ser Ala Met Pro Glu Gly Tyr Val Gln Glu Arg Thr Ile Phe
195 200 205

Phe Lys Asp Asp Gly Asn Tyr Lys Thr Arg Ala Glu Val Lys Phe Glu
210 215 220

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Gly Asp Thr Leu Val Asn Arg Ile Glu Leu Lys Gly Ile Asp Phe Lys
 225 230 235 240

Glu Asp Gly Asn Ile Leu Gly His Lys Leu Glu Tyr Asn Tyr Asn Ser
 245 250 255

His Asn Val Tyr Ile Met Ala Asp Lys Gln Lys Asn Gly Ile Lys Val
 260 265 270

Asn Phe Lys Ile Arg His Asn Ile Glu Asp Gly Gly Val Gln Leu Ala
 275 280 285

Asp His Tyr Gln Gln Asn Thr Pro Ile Gly Asp Gly Pro Val Leu Leu
 290 295 300

Pro Asp Asn His Tyr Leu Ser Thr Gln Ser Ala Leu Ser Lys Asp Pro
 305 310 315 320

Asn Glu Lys Arg Asp His Met Val Leu Leu Gly Phe Val Thr Ala Ala
 325 330 335

Gly Ile Thr His Gly Met Asp Glu Leu Tyr Lys
 340 345

<210> 11

<211> 34

<212> DNA

<213> Artificial

<220>

<223> Synthetic oligonucleotide primer

<400> 11

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34

<210> 12

<211> 37

<212> DNA

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<220>

<223> Synthetic oligonucleotide primer

<400> 12

tttgttgcg accttactca ttagtagctt ttttgag

37

<210> 13

<211> 34

<212> DNA

<213> Artificial

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<223> Synthetic oligonucleotide primer

<400> 13

tttgttgcg accctcatta gtagtttt tgag

34

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<210> 14

<211> 41

<212> DNA

<213> Artificial

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<223> Synthetic oligonucleotide primer

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<210> 15

<211> 41

<212> DNA

<213> Artificial

<220>

<223> Synthetic oligonucleotide primer

<400> 15

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41